

Title (en)
MANUFACTURE OF A ZEOLITE CATALYST FOR SKELETAL ISOMERIZATION OF OLEFINS

Title (de)
HERSTELLUNG EINES ZEOLITHKATALYSATORS ZUR GERÜSTISOMERISIERUNG VON OLEFINEN

Title (fr)
PRÉPARATION D'UN CATALYSEUR ZÉOLITIQUE POUR ISOMÉRISEMENT DE SQUELÈTTES D'OLEFINES

Publication
EP 1610895 B1 20130424 (EN)

Application
EP 04718662 A 20040309

Priority
• FI 2004000127 W 20040309
• FI 20030383 A 20030314

Abstract (en)
[origin: WO2004080590A1] The present invention relates to an active and selective zeolite catalyst having MTT structure that is useful in skeletal isomerisation of light olefins. It also relates to a method for the manufacture of said catalyst. The method for the manufacture of the zeolite catalyst having MTT structure comprises the steps of a) Preparing of a gel mixture capable of forming crystalline material, and said mixture comprising sources of alkali or alkaline earth metal (M,) of an oxide of a trivalent element (X), of an oxide of a tetravalent element (Y), water and a directing agent (R), and said mixture having a composition, in terms of molar ratios, within the following ranges; (I) b) Maintaining of said mixture under sufficient conditions, including a temperature of from about 100 °C to about 250 °C, under dynamic mode of stirring until crystals of said material are formed, recovering the material, and b) Removing of said directing agent (R) partly or totally with a calcination procedure, whereby a zeolite catalyst having MTT structure is obtained.

IPC 8 full level
B01J 29/70 (2006.01); **C01B 39/48** (2006.01); **C07C 5/27** (2006.01); **C10G 45/64** (2006.01); **B01J 29/87** (2006.01)

CPC (source: EP US)
B01J 29/7046 (2013.01 - EP US); **C01B 39/48** (2013.01 - EP US); **C07C 5/2708** (2013.01 - EP US); **C10G 45/64** (2013.01 - EP US); **B01J 29/87** (2013.01 - EP US); **C07C 2529/70** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004080590 A1 20040923; CN 1894037 A 20070110; CN 1894037 B 20101117; DK 1610895 T3 20130729; EP 1610895 A1 20060104; EP 1610895 B1 20130424; FI 118516 B 20071214; FI 20030383 A0 20030314; FI 20030383 A 20040915; US 2006275207 A1 20061207; US 7604794 B2 20091020; ZA 200507150 B 20060531

DOCDB simple family (application)
FI 2004000127 W 20040309; CN 200480009289 A 20040309; DK 04718662 T 20040309; EP 04718662 A 20040309; FI 20030383 A 20030314; US 54916904 A 20040309; ZA 200507150 A 20050906